

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062478.D
 Acq On : 10 Jul 2020 00:40
 Operator : JC/MD
 Sample : L3203-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-24

Quant Time: Jul 10 02:12:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

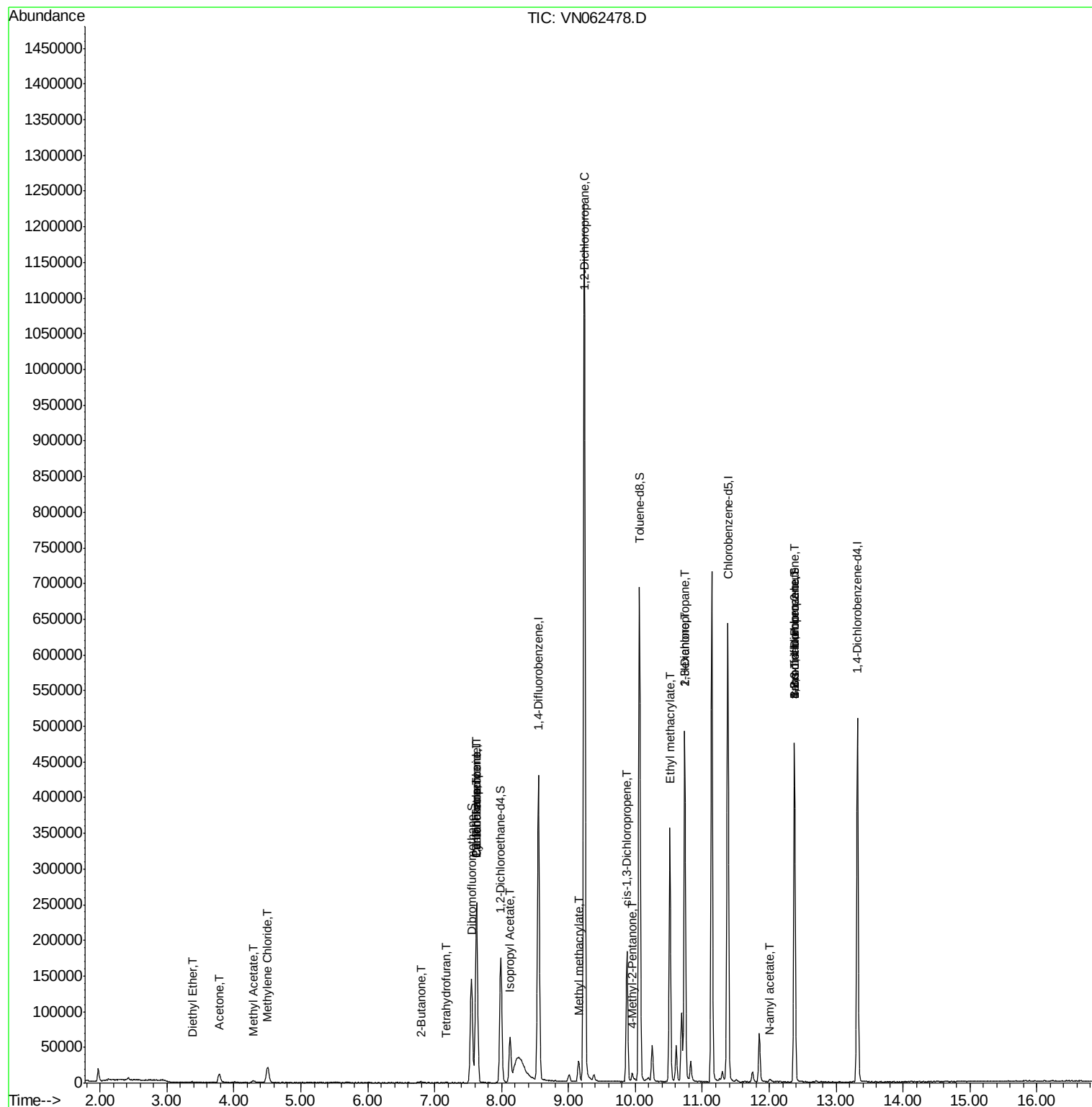
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	193742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	360585	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	351088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	130778	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	152646	51.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.44%	
35) Dibromofluoromethane	7.55	113	112178	50.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.66%	
50) Toluene-d8	10.06	98	469381	53.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.68%	
62) 4-Bromofluorobenzene	12.38	95	169570	52.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.48%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.38	74	454	0.308	ug/l	79
16) Acetone	3.78	43	22427	17.726	ug/l	98
18) Methyl Acetate	4.28	43	5868	1.859	ug/l #	91
20) Methylene Chloride	4.50	84	15760	5.826	ug/l	88
25) 2-Butanone	6.79	43	1386	0.750	ug/l	100
29) Tetrahydrofuran	7.18	42	463	0.372	ug/l #	39
31) Cyclohexane	7.63	56	4593	1.015	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	17151	4.721	ug/l #	52
38) Carbon Tetrachloride	7.63	117	20161	6.173	ug/l #	16
43) Isopropyl Acetate	8.13	43	78396	11.683	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	1331	0.428	ug/l #	44
48) Methyl methacrylate	9.14	41	4479	1.361	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	7654	1.910	ug/l	93
54) cis-1,3-Dichloropropene	9.88	75	30586	6.598	ug/l #	62
56) Ethyl methacrylate	10.51	69	1027	1.933	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4605	1.025	ug/l #	43
59) 2-Hexanone	10.74	43	76574	26.316	ug/l #	53
71) Bromoform	12.38	173	834	0.452	ug/l #	1
74) N-amyl acetate	12.01	43	3342	0.678	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	88060	27.443	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	88060	73.453	ug/l #	10
95) Naphthalene	15.13	128	651	Below Cal	#	70

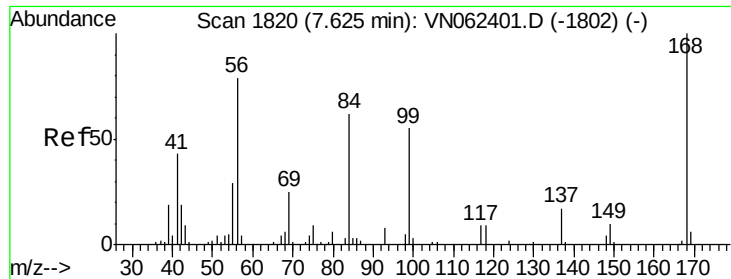
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

Instrument :

MSVOA_N

ClientSampled :

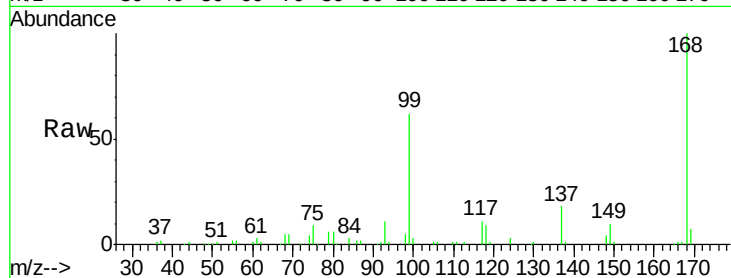
RO-24

Tot Ion:168 Resp: 193742

Ion Ratio Lower Upper

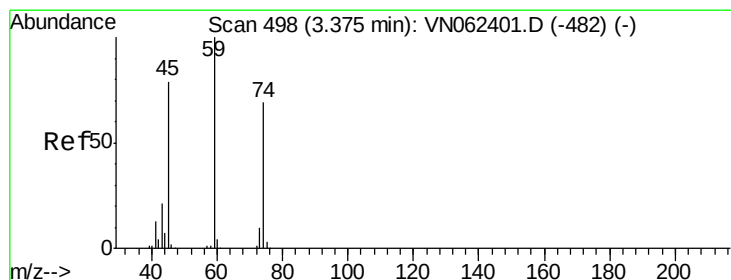
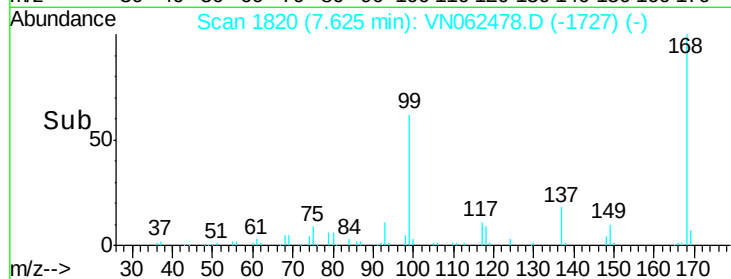
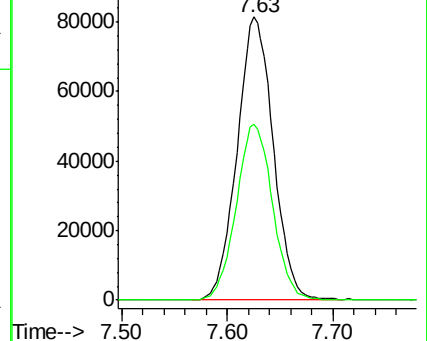
168 100

99 62.1 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#8

Diethyl Ether

Concen: 0.308 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.00 min

Lab File: VN062478.D

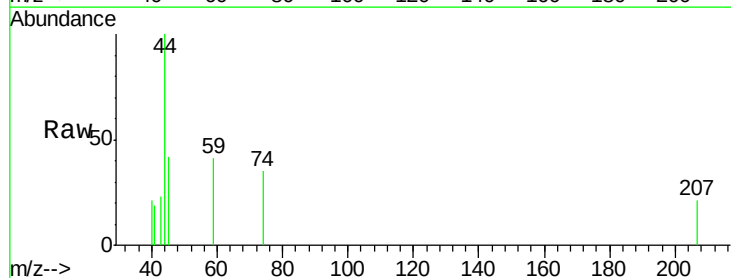
Acq: 10 Jul 2020 00:40

Tgt Ion: 74 Resp: 454

Ion Ratio Lower Upper

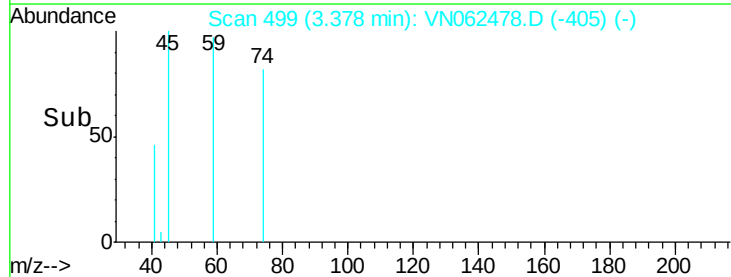
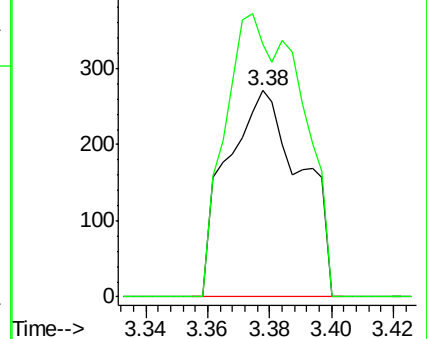
74 100

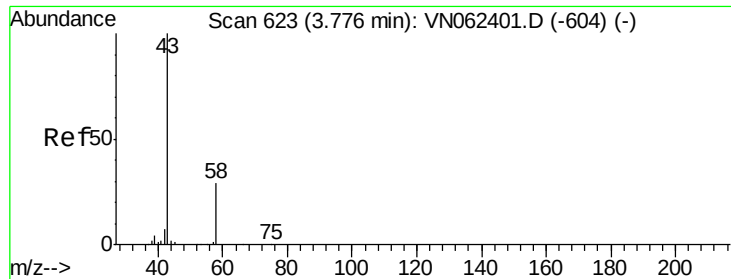
45 139.9 58.5 175.3



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

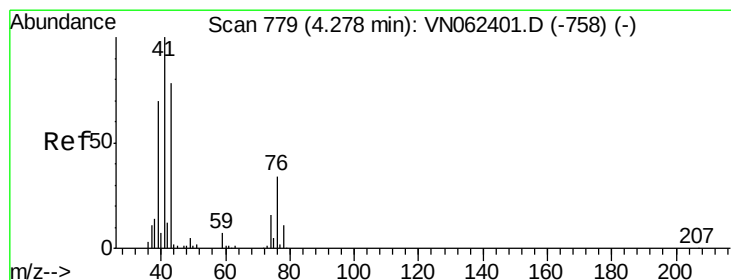
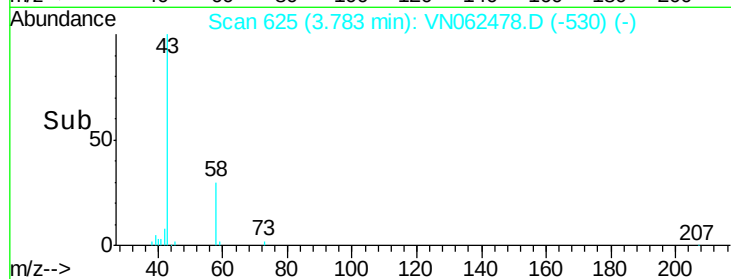
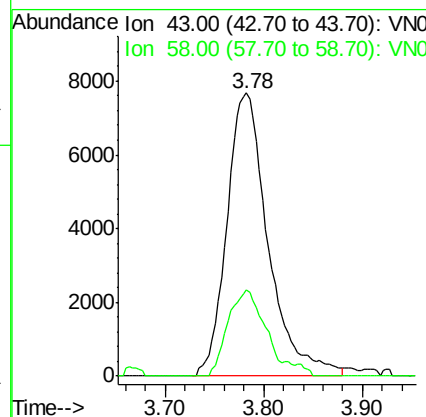
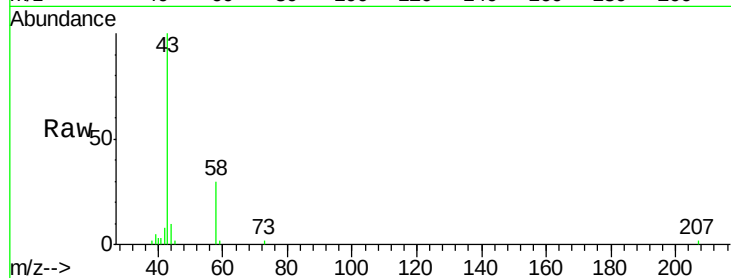




#16
Acetone
Concen: 17.726 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

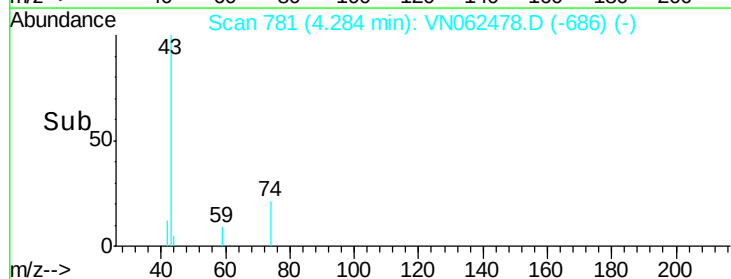
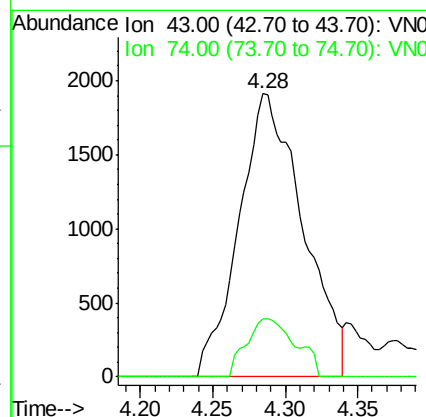
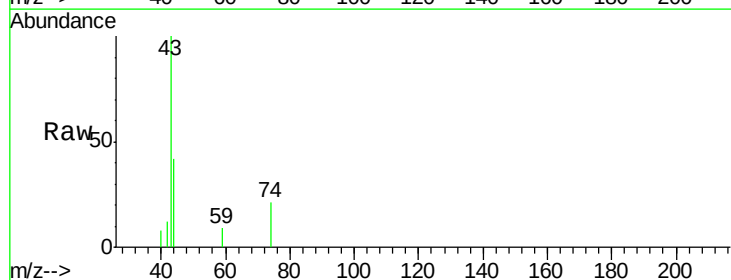
Instrument :
MSVOA_N
ClientSampled :
RO-24

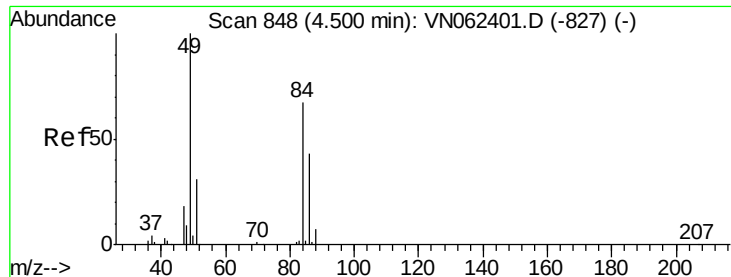
Tot Ion: 43 Resp: 22427
Ion Ratio Lower Upper
43 100
58 30.3 23.5 35.3



#18
Methyl Acetate
Concen: 1.859 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

Tgt Ion: 43 Resp: 5868
Ion Ratio Lower Upper
43 100
74 15.8 16.0 24.0#



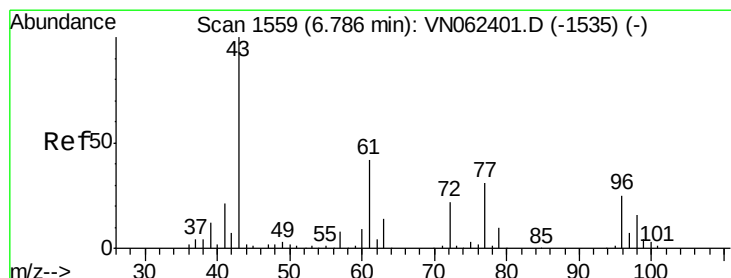
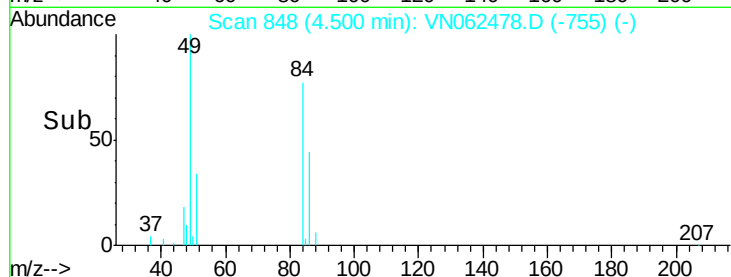
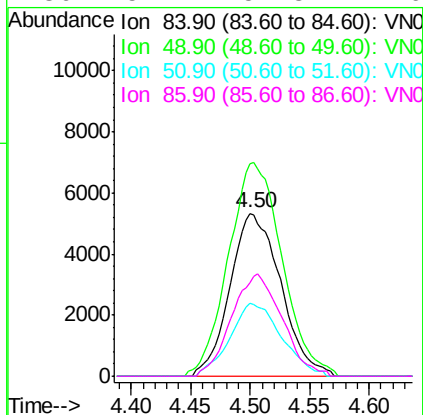
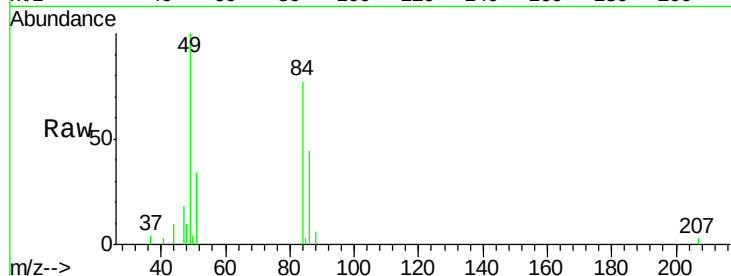


#20
Methvlene Chloride
Concen: 5.826 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

Instrument :
MSVOA_N
ClientSampled :
RO-24

Tot Ion: 84 Resp: 15760

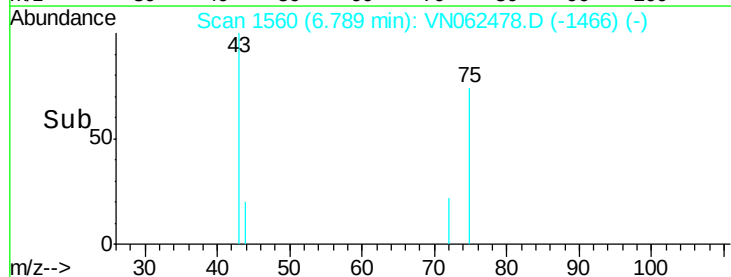
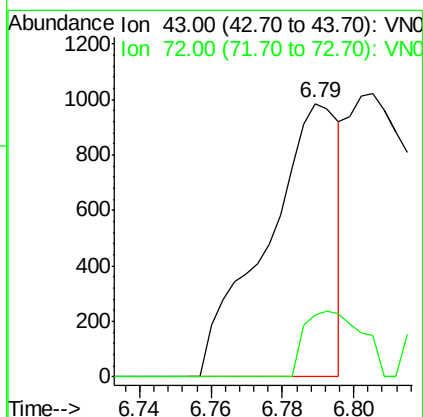
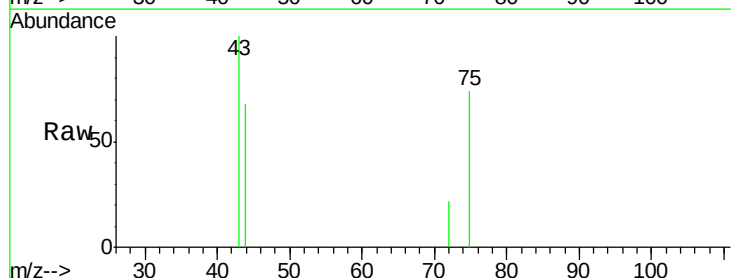
Ion	Ratio	Lower	Upper
84	100		
49	130.5	120.0	180.0
51	44.8	37.0	55.6
86	57.1	51.8	77.6

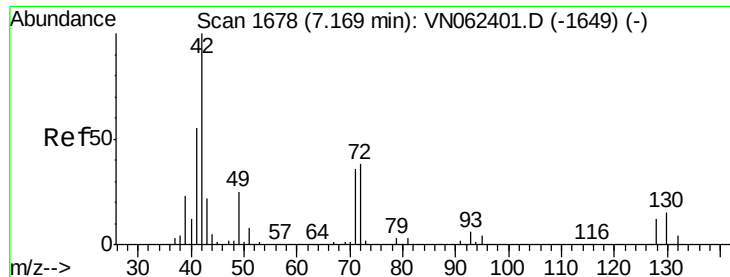


#25
2-Butanone
Concen: 0.750 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

Tgt Ion: 43 Resp: 1386

Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.9	26.9





#29

Tetrahydrofuran

Concen: 0.372 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

Instrument :

MSVOA_N

ClientSampled :

RO-24

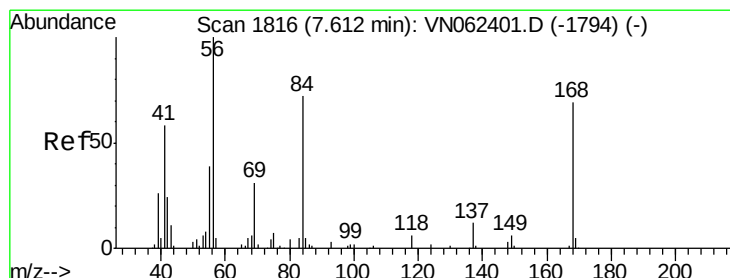
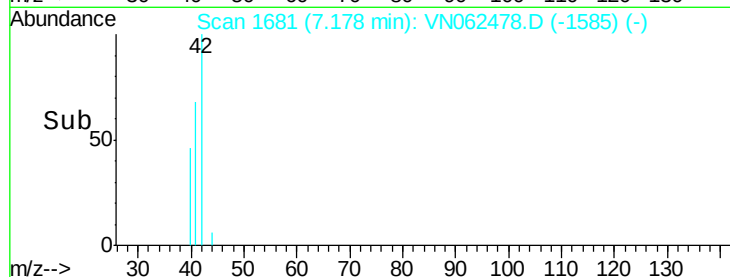
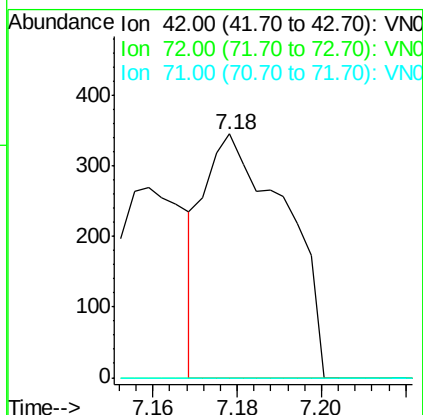
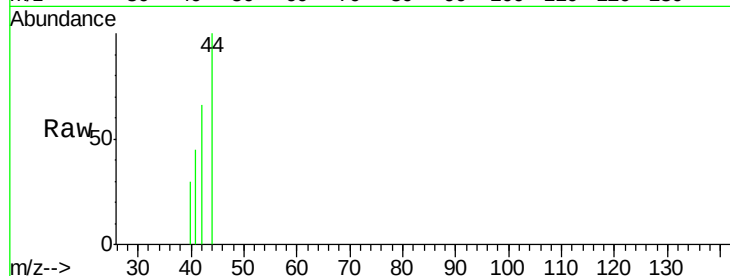
Tot Ion: 42 Resp: 463

Ion Ratio Lower Upper

42 100

72 0.0 29.1 43.7#

71 0.0 28.1 42.1#



#31

Cyclohexane

Concen: 1.015 ug/l

RT: 7.63 min Scan# 1822

Delta R.T. 0.02 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

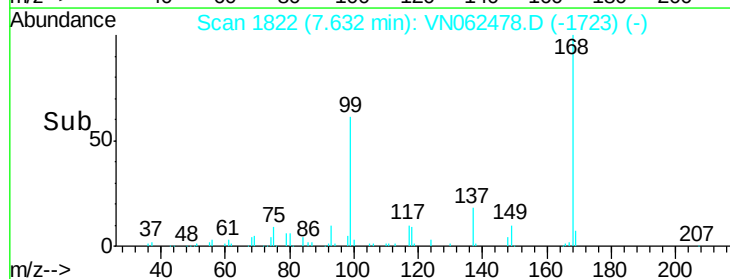
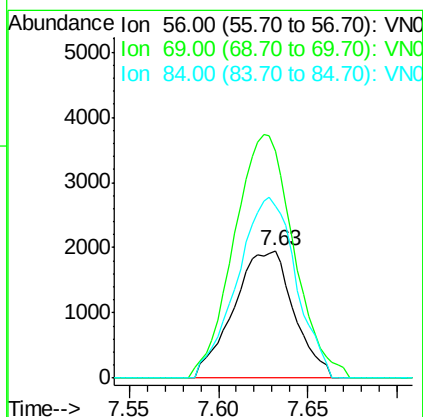
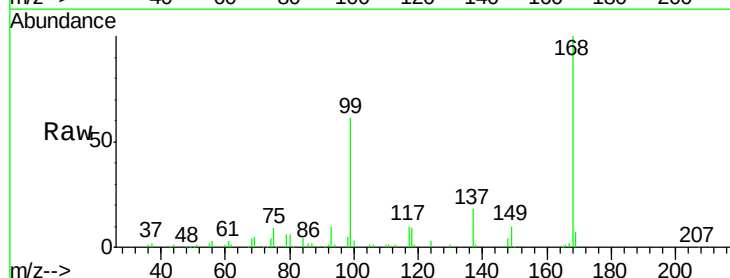
Tgt Ion: 56 Resp: 4593

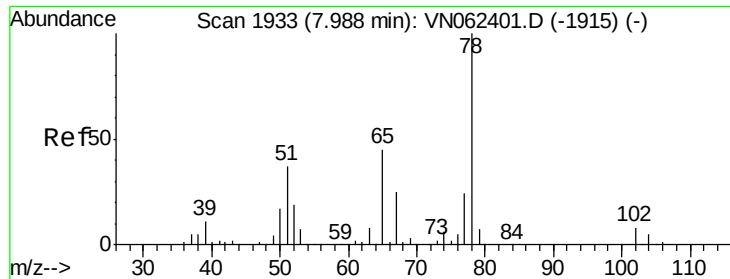
Ion Ratio Lower Upper

56 100

69 178.3 24.5 36.7#

84 135.6 57.4 86.2#

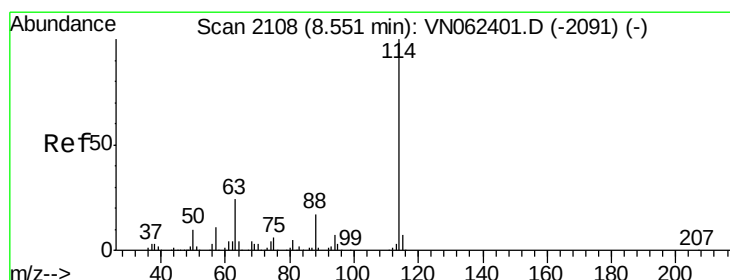
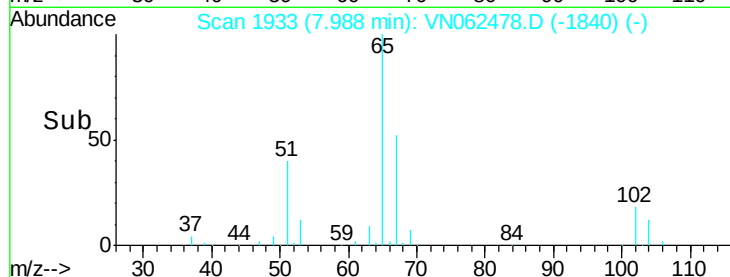
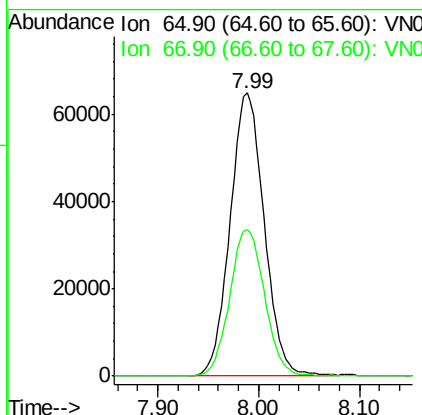
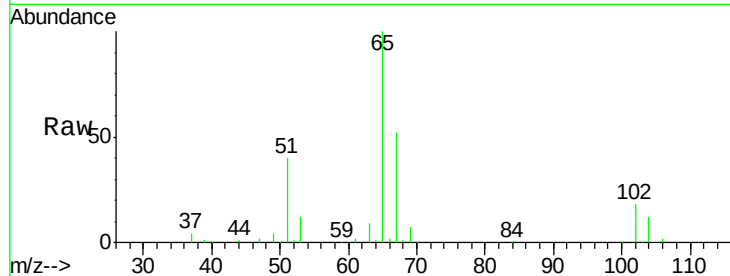




#33
 1,2-Dichloroethane-d4
 Concen: 51.224 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

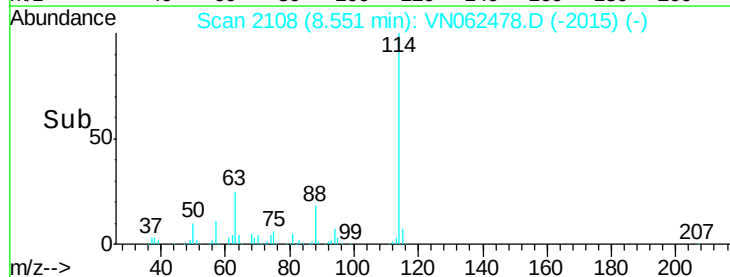
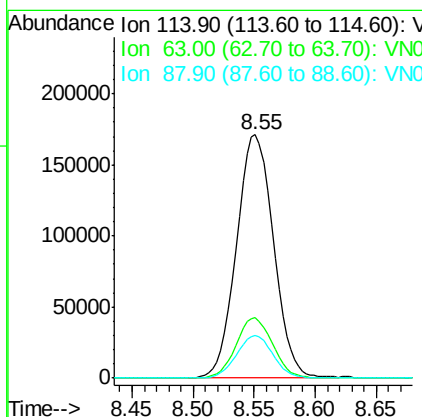
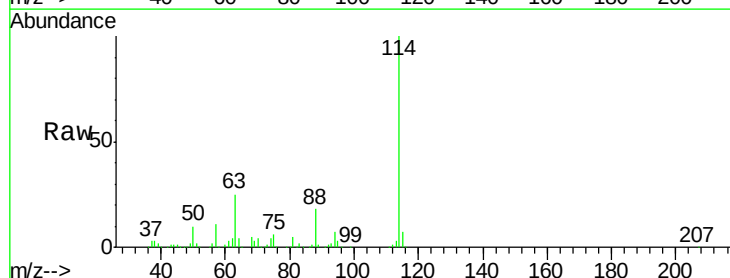
Instrument :
 MSVOA_N
 ClientSampled :
 RO-24

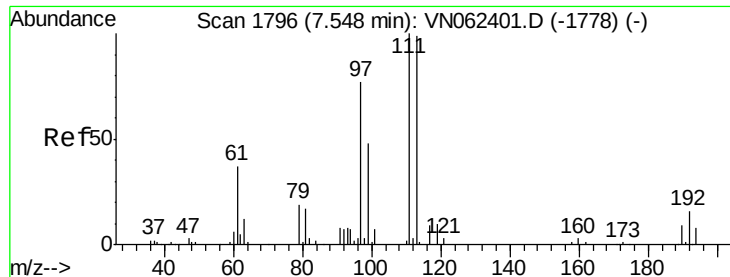
Tot Ion: 65 Resp: 152646
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

Tgt Ion: 114 Resp: 360585
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 48.4
 88 17.6 0.0 33.8

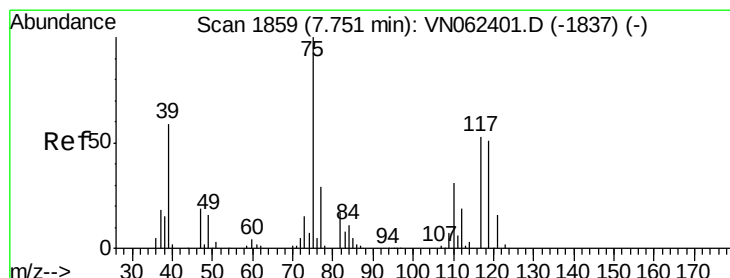
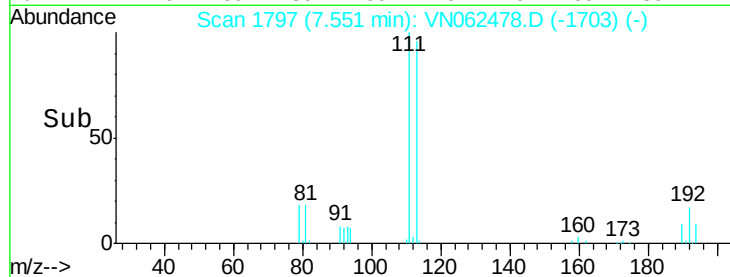
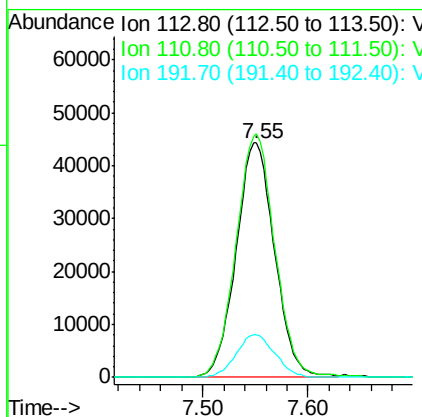
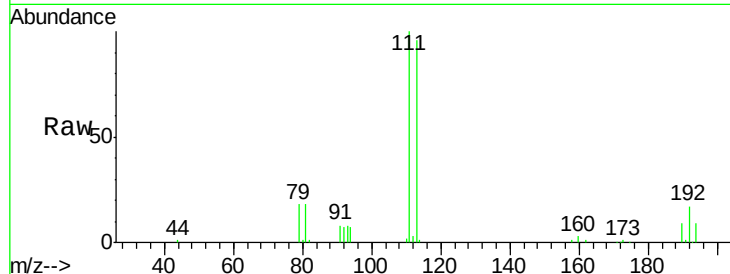




#35
 Dibromofluoromethane
 Concen: 50.329 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

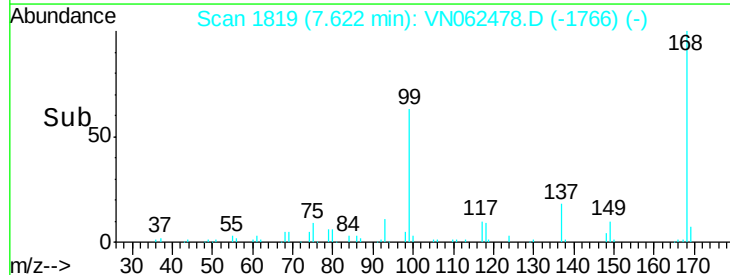
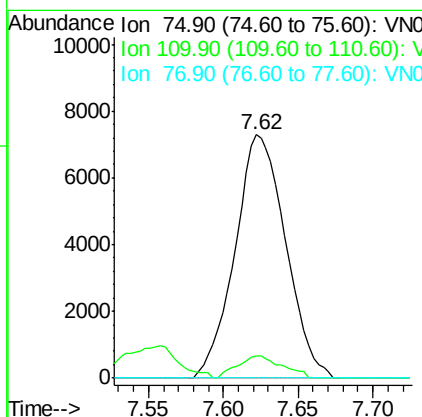
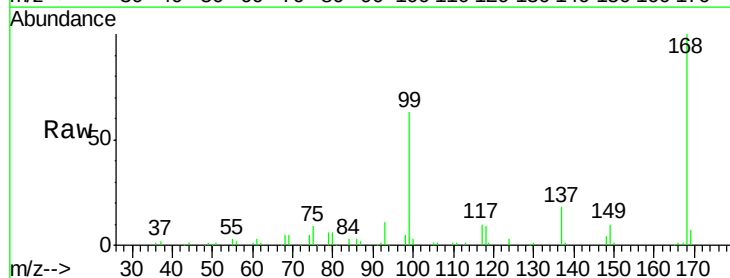
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-24

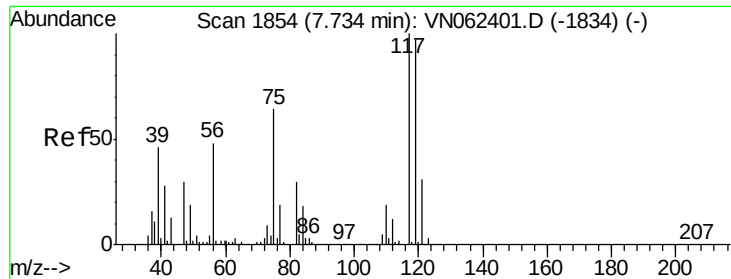
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.2	83.1	124.7
192	18.3	14.1	21.1



#36
 1,1-Dichloropropene
 Concen: 4.721 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	15.4	46.2#
77	0.0	24.1	36.1#





#38

Carbon Tetrachloride

Concen: 6.173 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

Instrument :

MSVOA_N

ClientSampleId :

RO-24

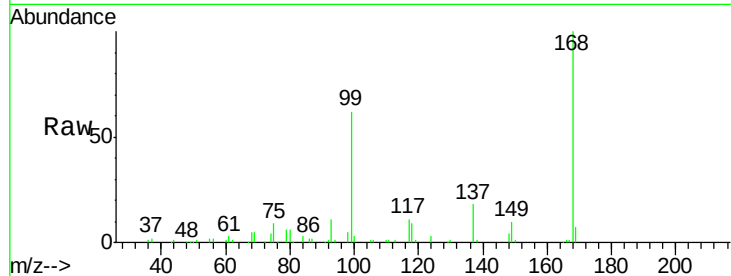
Tot Ion:117 Resp: 20161

Ion Ratio Lower Upper

117 100

119 5.1 77.2 115.8#

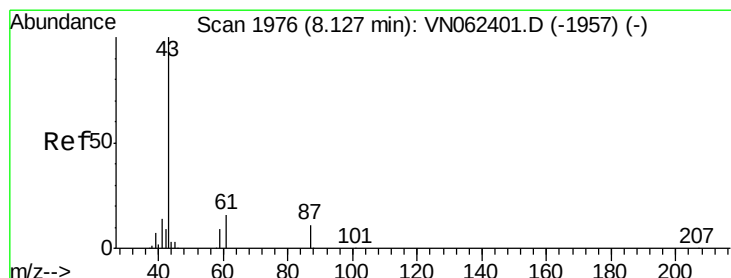
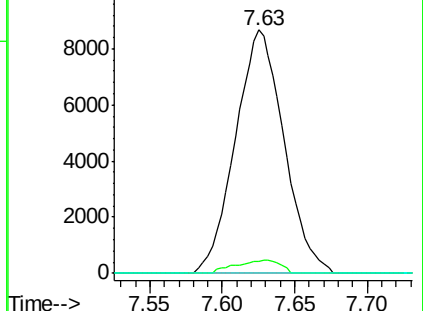
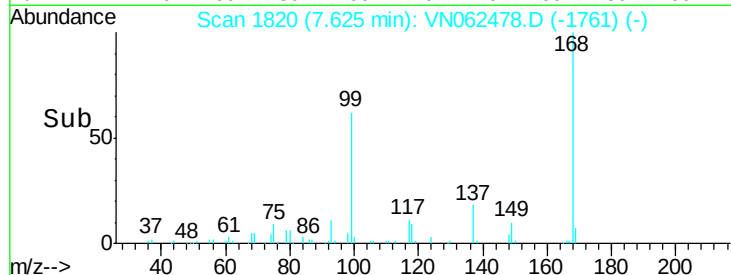
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 11.683 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

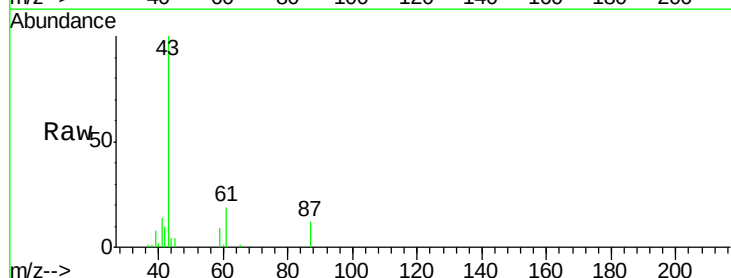
Tgt Ion: 43 Resp: 78396

Ion Ratio Lower Upper

43 100

61 18.8 19.3 28.9#

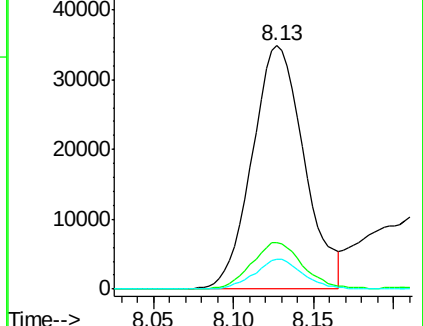
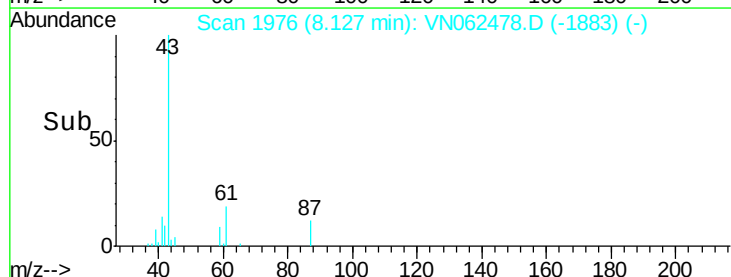
87 11.1 8.6 13.0

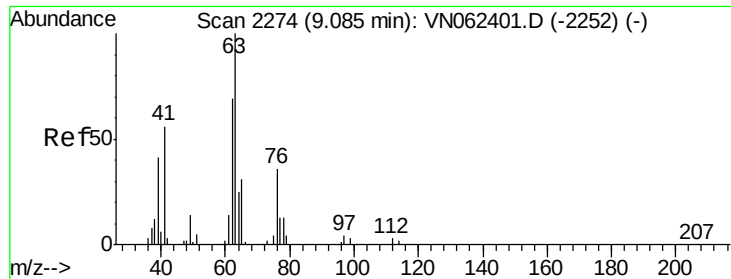


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.428 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

Instrument :

MSVOA_N

ClientSampled :

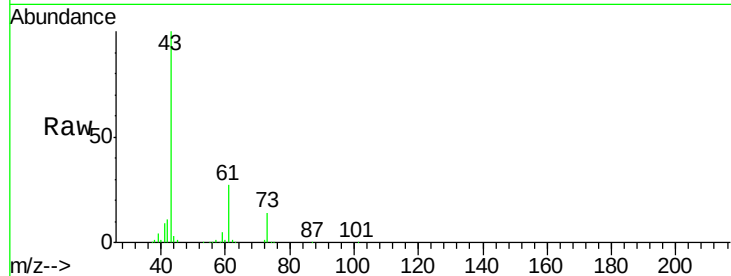
RO-24

Tot Ion: 63 Resp: 1331

Ion Ratio Lower Upper

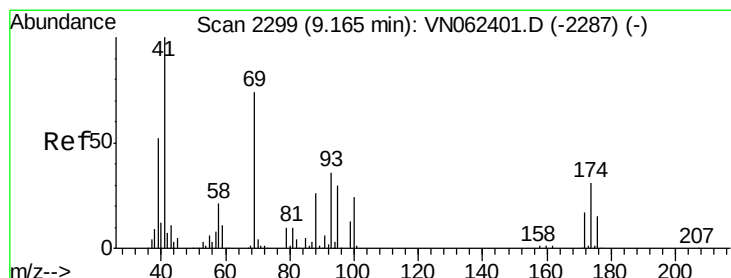
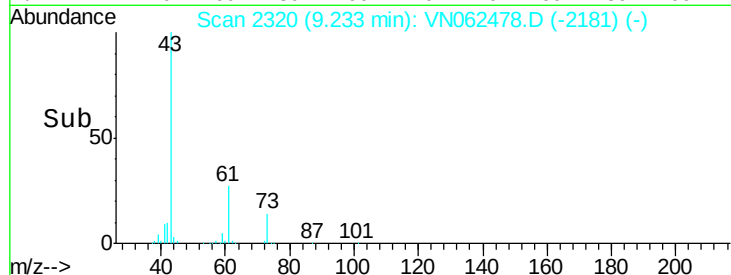
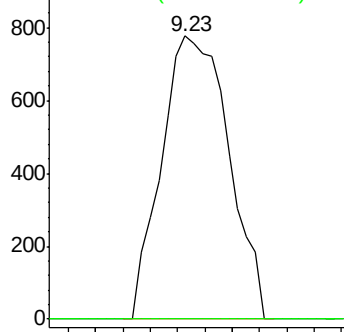
63 100

65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.361 ug/l

RT: 9.14 min Scan# 2291

Delta R.T. -0.03 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

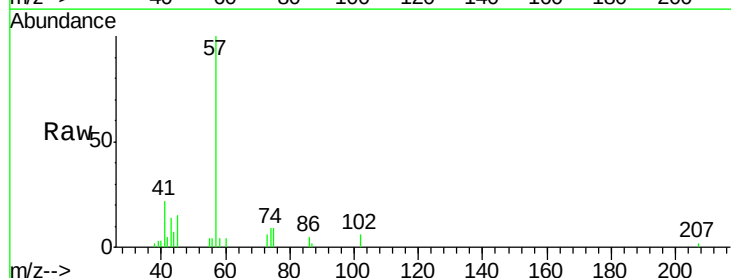
Tgt Ion: 41 Resp: 4479

Ion Ratio Lower Upper

41 100

69 0.0 60.8 91.2#

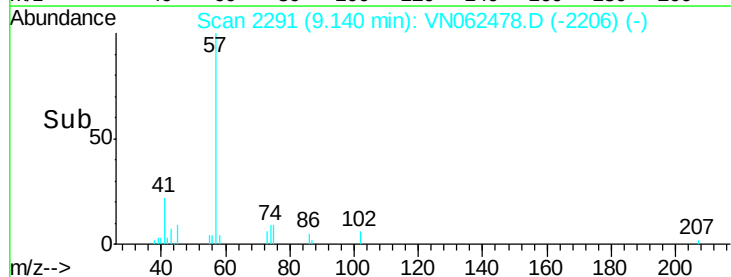
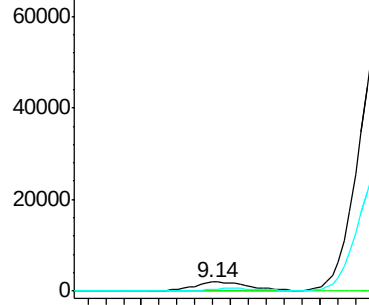
39 0.0 43.5 65.3#

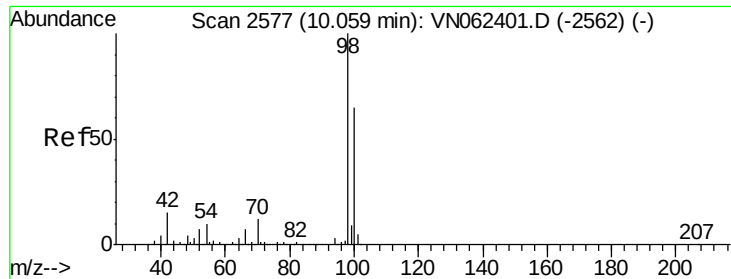


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

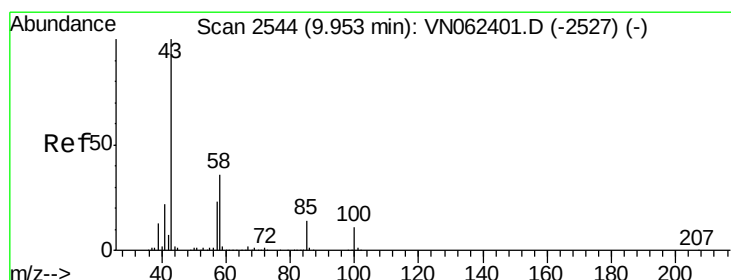
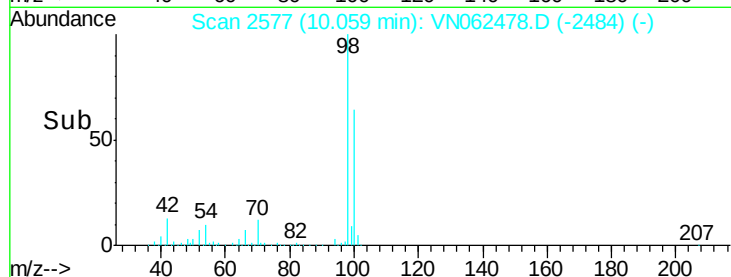
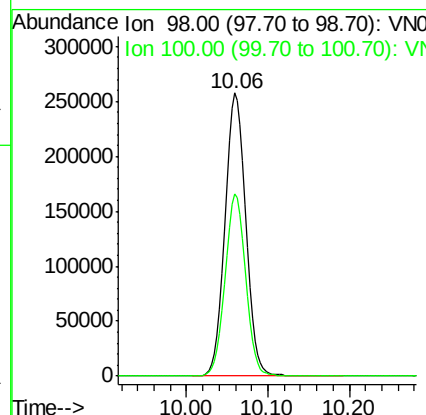
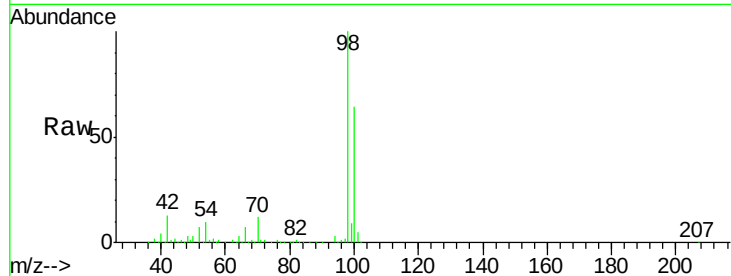




#50
Toluene-d8
Concen: 53.345 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

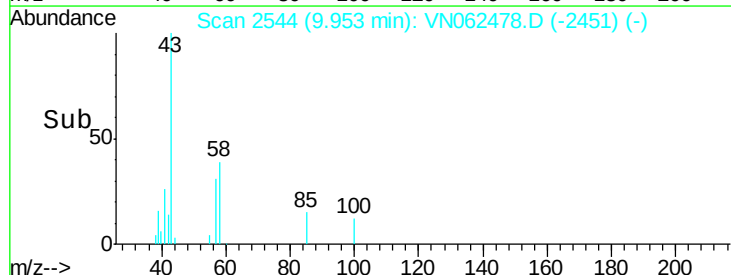
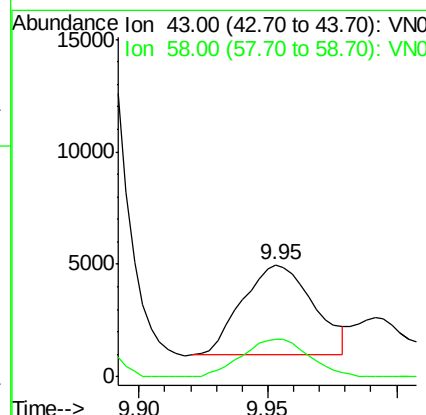
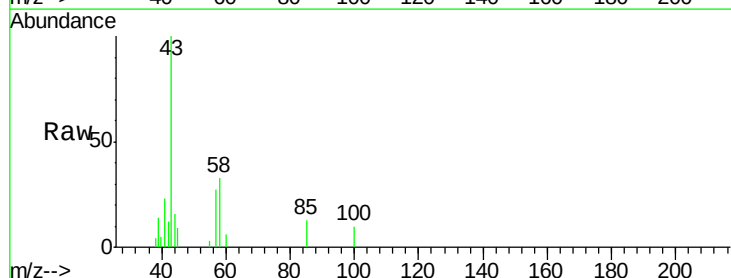
Instrument :
MSVOA_N
ClientSampled :
RO-24

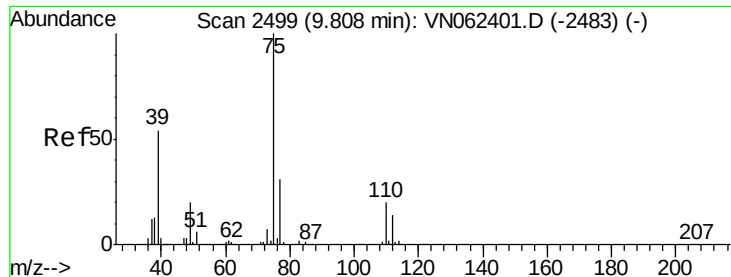
Tot Ion: 98 Resp: 469381
Ion Ratio Lower Upper
98 100
100 63.4 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 1.910 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

Tgt Ion: 43 Resp: 7654
Ion Ratio Lower Upper
43 100
58 40.2 29.0 43.6



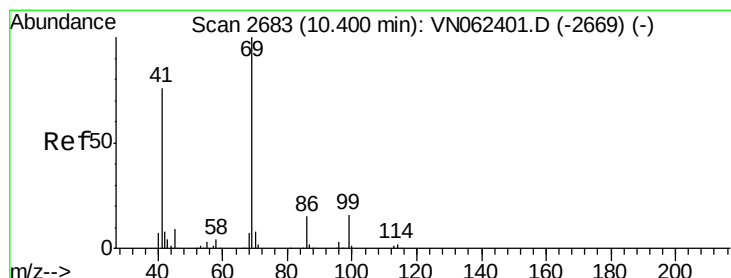
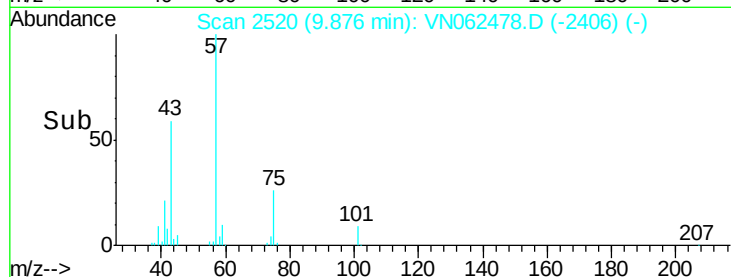
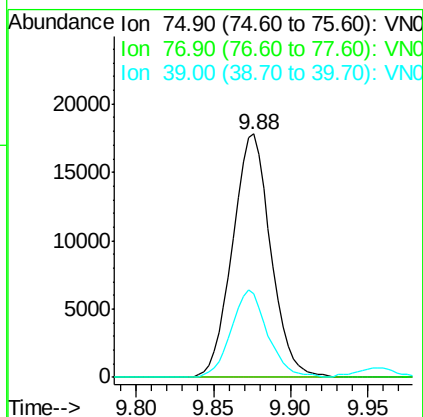
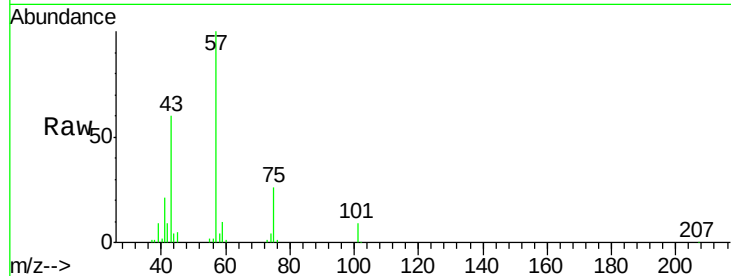


#54

cis-1,3-Dichloropropene
 Concen: 6.598 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-24

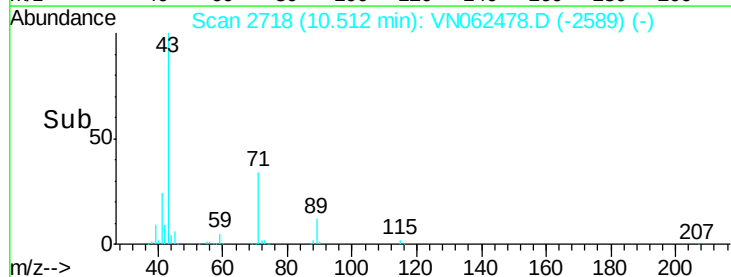
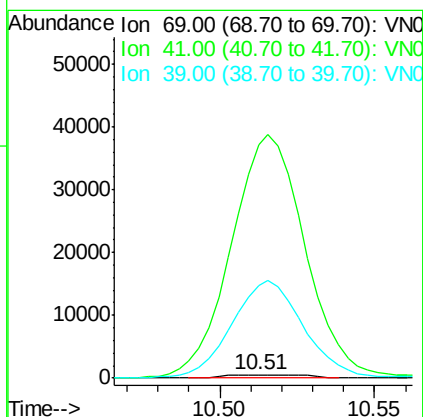
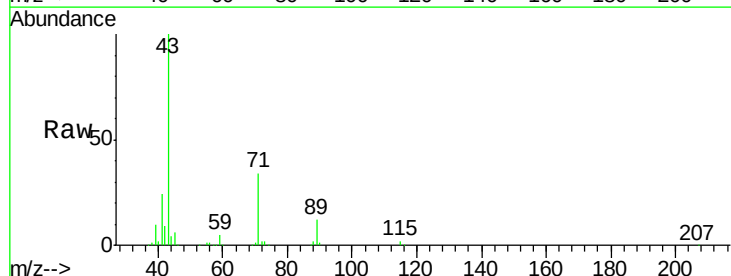
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.5	36.7#
39	34.1	43.4	65.0#

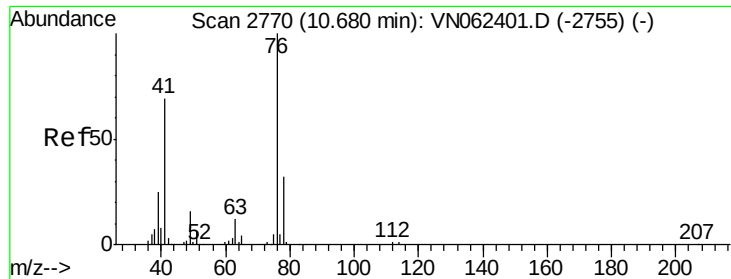


#56

Ethyl methacrylate
 Concen: 1.933 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

Tgt Ion	Ratio	Lower	Upper
69	100		
41	6312.5	59.7	89.5#
39	2470.8	30.6	45.8#

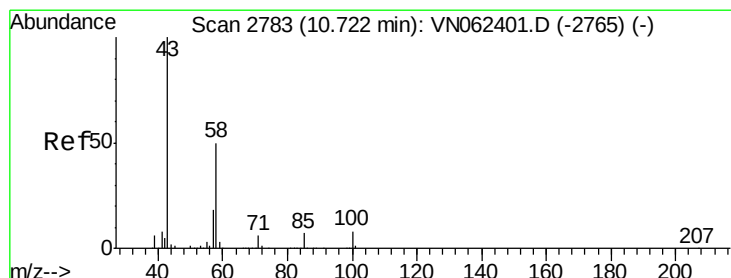
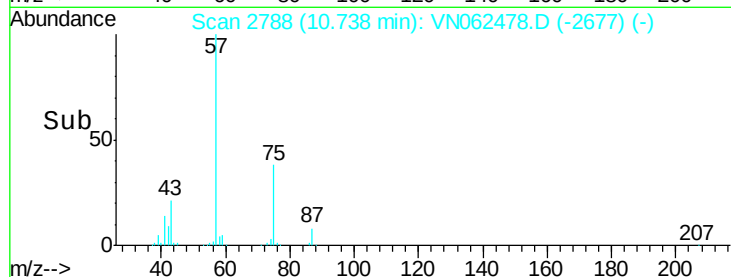
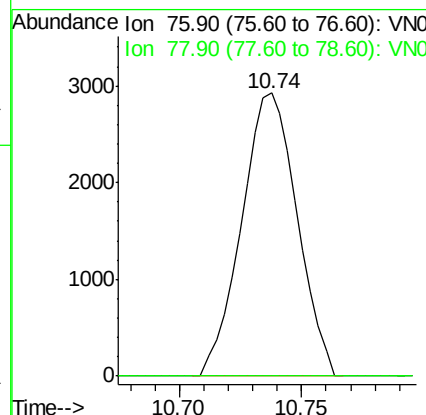
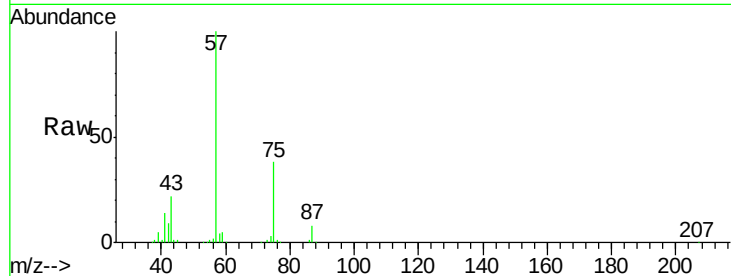




#57
 1,3-Dichloropropane
 Concen: 1.025 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

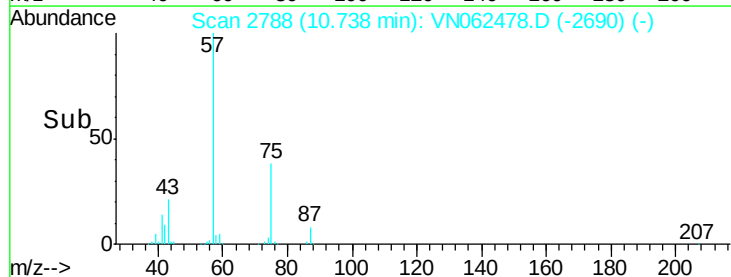
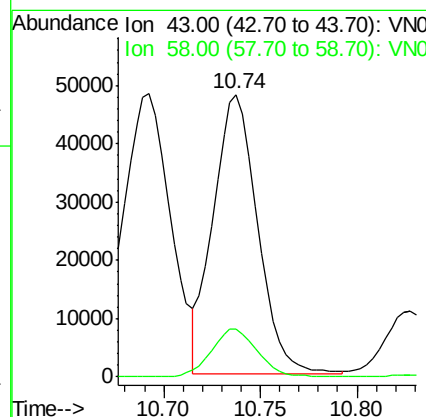
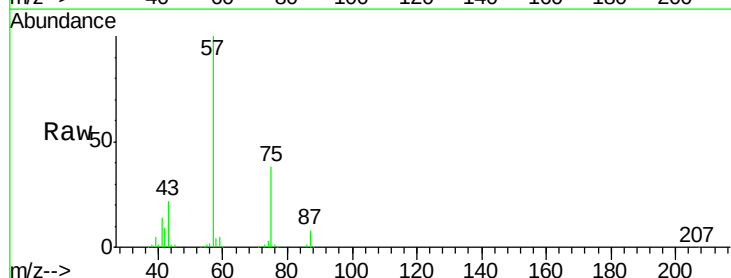
Instrument :
 MSVOA_N
 ClientSampled :
 RO-24

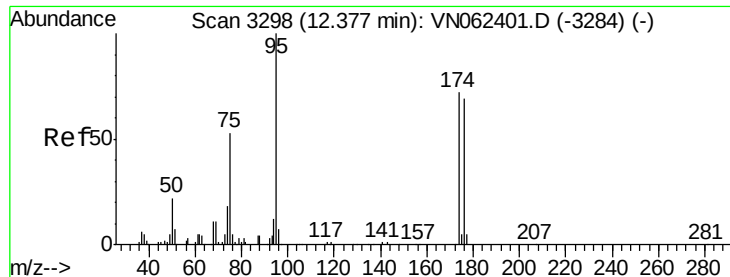
Tot Ion: 76 Resp: 4605
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 26.316 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062478.D
 Acq: 10 Jul 2020 00:40

Tgt Ion: 43 Resp: 76574
 Ion Ratio Lower Upper
 43 100
 58 17.7 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 52.736 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

Instrument :

MSVOA_N

ClientSampled :

RO-24

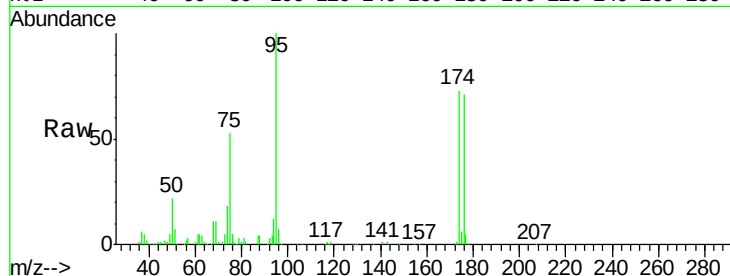
Tot Ion: 95 Resp: 169570

Ion Ratio Lower Upper

95 100

174 71.7 0.0 141.6

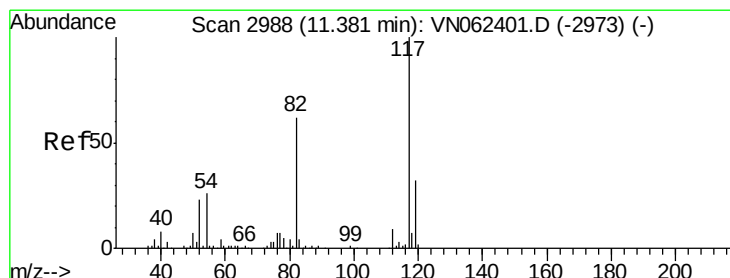
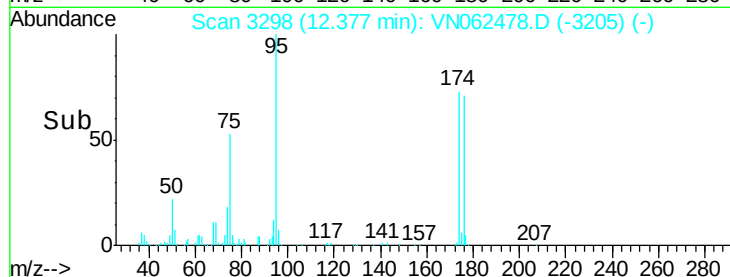
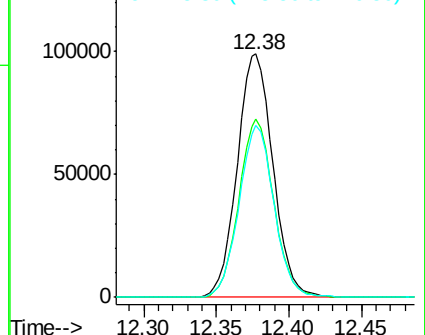
176 69.2 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN062401.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062401.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062401.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

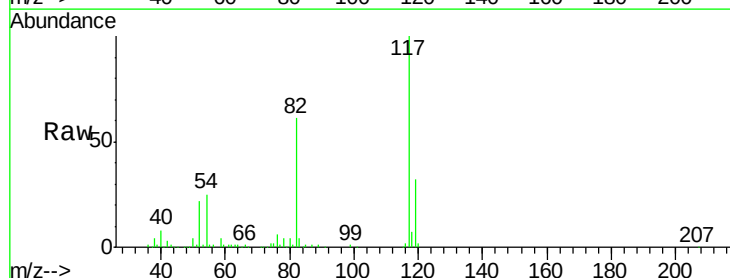
Tgt Ion: 117 Resp: 351088

Ion Ratio Lower Upper

117 100

82 60.9 49.6 74.4

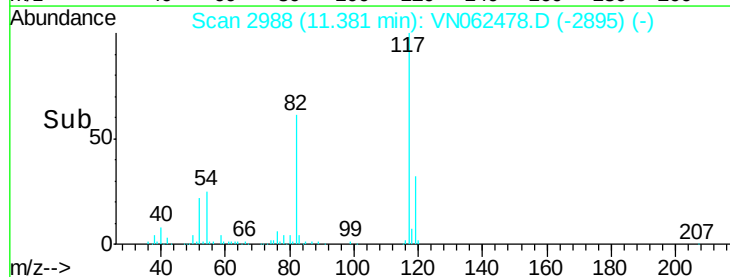
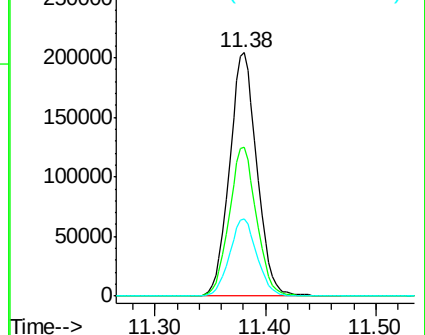
119 31.7 25.4 38.0

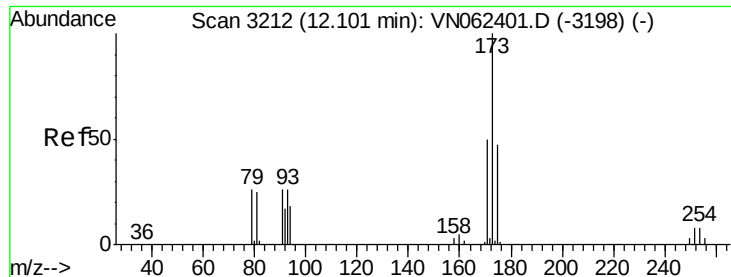


Abundance Ion 116.90 (116.60 to 117.60): VN062401.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN062401.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN062401.D (-2973) (-)

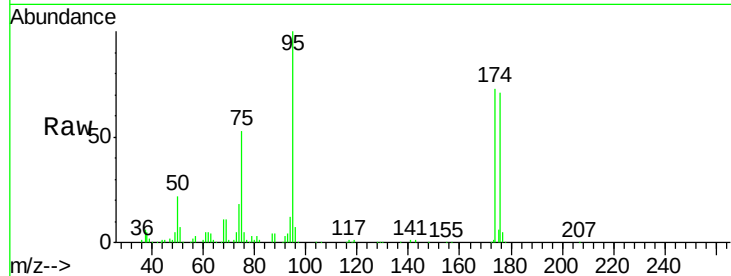




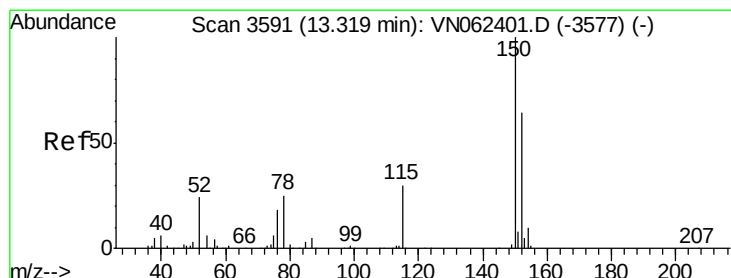
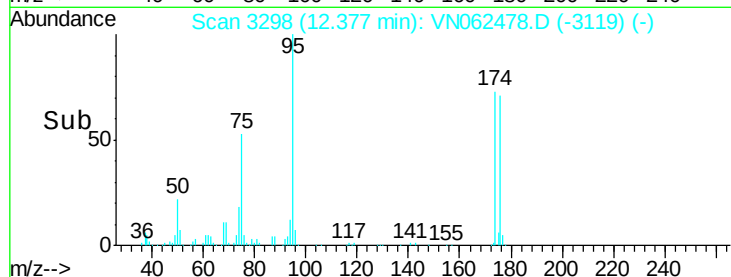
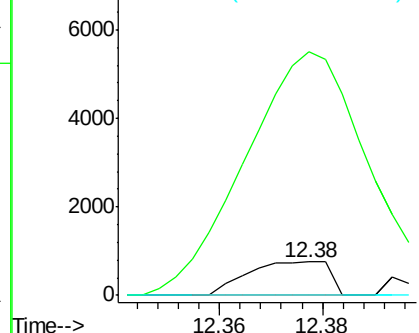
#71
Bromoform
Concen: 0.452 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

Instrument :
MSVOA_N
ClientSampled :
RO-24

Tot Ion:173 Resp: 834
Ion Ratio Lower Upper
173 100
175 932.3 23.7 71.1#
254 0.0 0.0 0.0

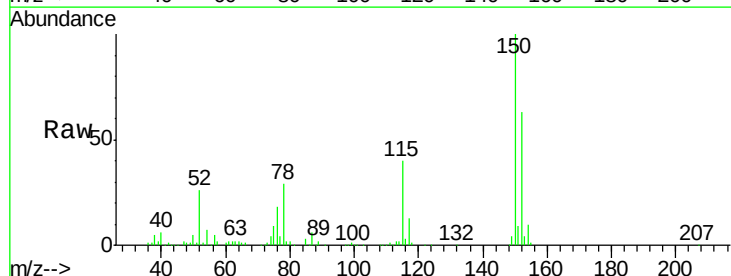


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

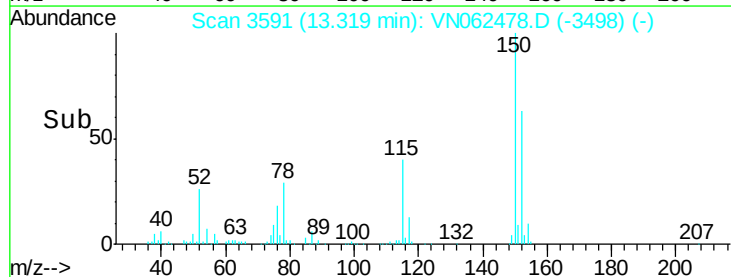
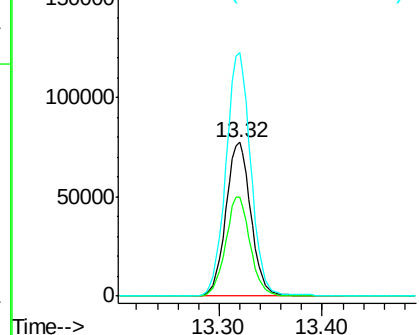


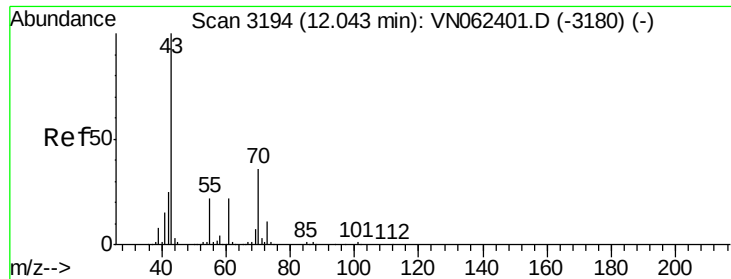
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3591
Delta R.T. -0.00 min
Lab File: VN062478.D
Acq: 10 Jul 2020 00:40

Tgt Ion:152 Resp: 130778
Ion Ratio Lower Upper
152 100
115 63.2 31.4 94.2
150 157.3 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.678 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

Instrument :

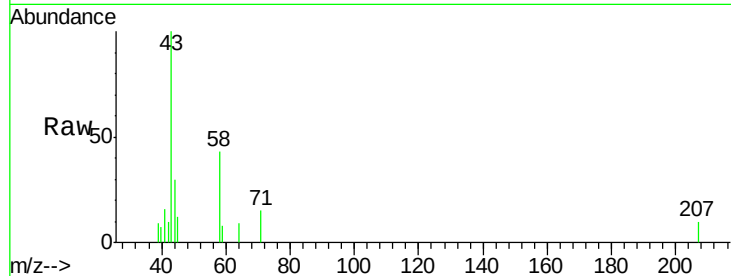
MSVOA_N

ClientSampled :

RO-24

Tot Ion: 43 Resp: 3342

Ion	Ratio	Lower	Upper
43	100		
70	0.0	30.0	45.0#
55	0.9	18.2	27.4#
61	0.0	17.7	26.5#

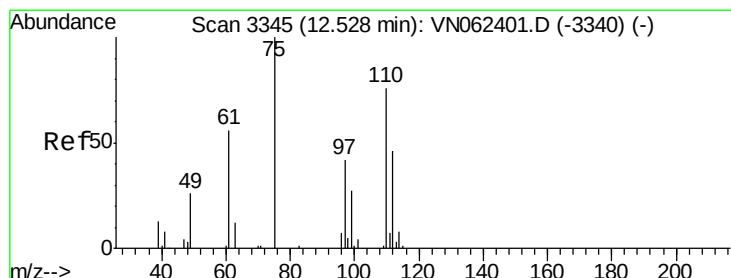
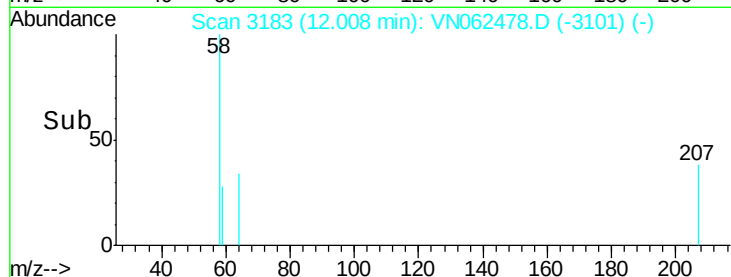
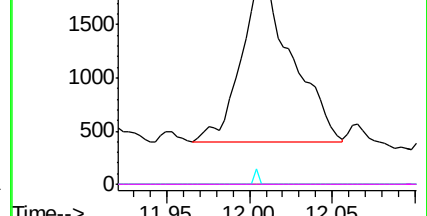


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.443 ug/l

RT: 12.38 min Scan# 3298

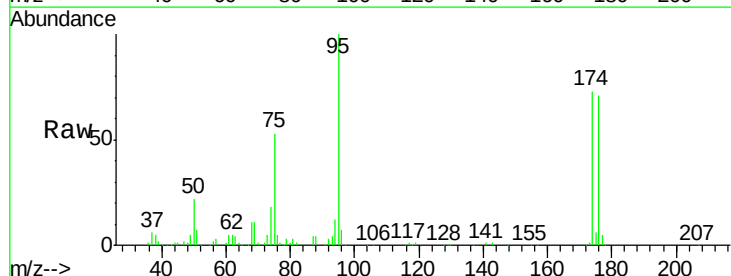
Delta R.T. -0.15 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

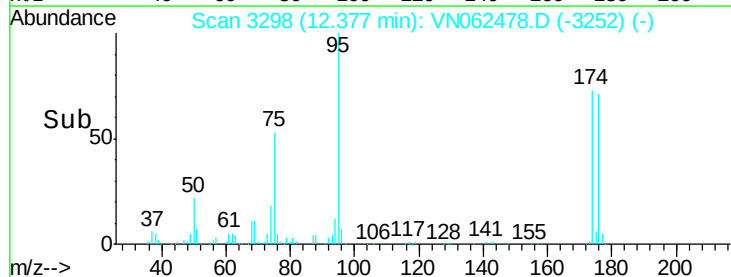
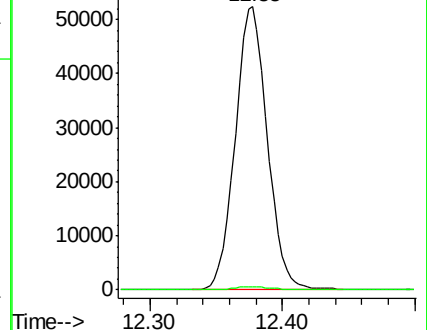
Tgt Ion: 75 Resp: 88060

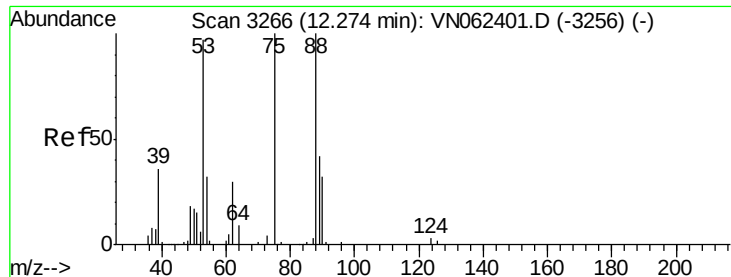
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 73.453 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

Instrument :

MSVOA_N

ClientSampled :

RO-24

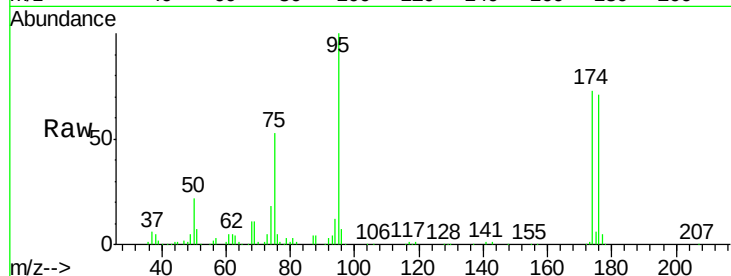
Tot Ion: 75 Resp: 88060

Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

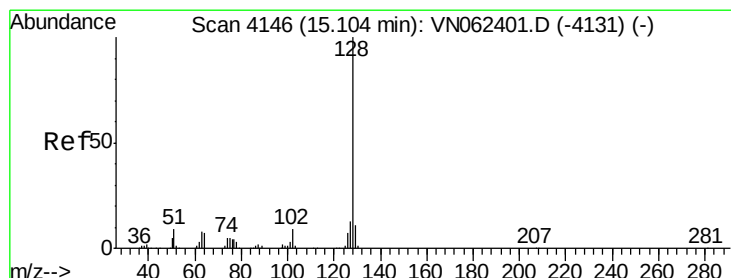
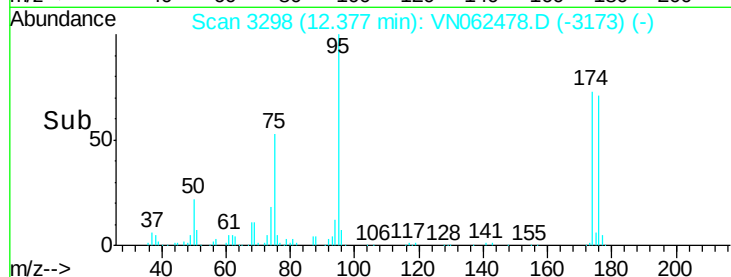
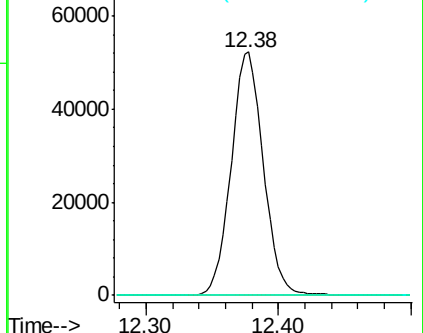
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062478.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN062478.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN062478.D (-3173) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. 0.02 min

Lab File: VN062478.D

Acq: 10 Jul 2020 00:40

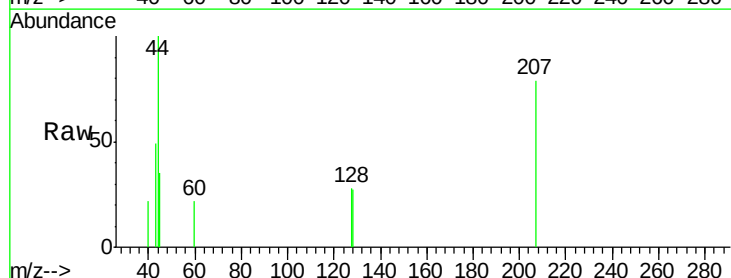
Tgt Ion: 128 Resp: 651

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN062478.D (-4052) (-)

Ion 127.00 (126.70 to 127.70): VN062478.D (-4052) (-)

Ion 129.00 (128.70 to 129.70): VN062478.D (-4052) (-)

